

ASSIGNMENT 3

Textbook Assignment: Chapter 3 - Roof Construction and Trim Carpentry
Chapter 4 - Exterior Finish of Walls

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| <p>3-1. Roof sheathing has what primary purpose?</p> <ol style="list-style-type: none">1. Appearance2. Nailing base for shingles3. Insulation4. Tying rafters together | <p>3-6. In what direction relative to the rafters should the face grain of plywood sheathing run?</p> <ol style="list-style-type: none">1. Perpendicular2. Parallel3. Diagonal |
| <p>3-2. Composition roof sheathing should be laid in which of the following ways?</p> <ol style="list-style-type: none">1. Closed2. Open, horizontally only3. Open, diagonally only4. Open, horizontally or diagonally | <p>3-7. When nailing 3/4-inch plywood sheathing to the rafters, what size nails should you use?</p> <ol style="list-style-type: none">1. 10d2. 8d3. 6d4. 4d |
| <p>3-3. Board roof sheathing normally falls into which of the following categories?</p> <ol style="list-style-type: none">1. Matched tongue and groove only2. Shiplapped only3. Shiplapped and square edged only4. Any of the above | <p>3-8. What is the purpose of the 2° bevel cut on the ends of plank roof decking?</p> <ol style="list-style-type: none">1. To allow for expansion2. To ensure a tight face joint3. To ensure space for adjustment2. To allow for quicker installation |
| <p>3-4. Tongue-and-groove boards used for closed sheathing must be supported by what minimum number of rafters?</p> <ol style="list-style-type: none">1. One2. Two3. Three4. Four | <p>3-9. What length should nails should you use for fastening plank decking?</p> <ol style="list-style-type: none">1. Twice the nominal plank thickness2. Three times the nominal plank thickness3. Three and one-half times the nominal plank thickness4. Four times the nominal plank thickness |
| <p>3-5. When you are determining the plywood thickness for roof sheathing, which of the following factors should NOT be a consideration?</p> <ol style="list-style-type: none">1. Rafter spacing2. Weather conditions3. Insulating factor4. Type of roofing material to be used | <p>3-10. Roof decking extending beyond a gable-end wall should span at least how many rafters?</p> <ol style="list-style-type: none">1. One2. Two3. Three4. Four |

- 3-11. Butt joints of plywood sheets should be alternated so they do not occur on the same rafter.
1. True
 2. False
- 3-12. What is the recommended clearance between masonry and wood framing members at a chimney?
1. 1 in.
 2. 2 in.
 3. 3 in.
 4. 4 in.
- 3-13. Which of the following wood characteristics is least important when selecting trim material?
1. Knots
 2. Even grain
 3. Natural decay-resistance
 4. Preservative pretreatment
- 3-14. For exterior trim fasteners, which of the following types of screws or nails is/are preferred?
1. Galvanized steel only
 2. Stainless steel only
 3. Aluminum only
 4. All of the above
- 3-15. What part of a gable roof projects beyond the end wall on an upward slope?
1. Rake
 2. Eave
 3. Fascia
 4. Ledger
- 3-16. On a roof with no overhang, what type of cornice is normally used?
1. Open
 2. Gable
 3. Closed
 4. Simple
- 3-17. In closed-cornice construction, the underside of the eaves is exposed.
1. True
 2. False
- 3-18. Which of the following components provides a nailing base for soffit material?
1. Lookout
 2. Frieze board
 3. Rafter
 4. Plancier
- 3-19. Wood soffit panels should be fastened using nails in what (a) size and (b) spacing?
1. (a) 6d (b) 6 in.
 2. (a) 6d (b) 8 in.
 3. (a) 4d (b) 8 in.
 4. (a) 4d (b) 6 in.
- 3-20. What problem occurs when galvanized nails are used with aluminum sheet metal?
1. Spalling
 2. Electrolysis
 3. Rusting
 4. Peeling
- 3-21. What is the area of a shingle that is not over-lapped called?
1. Top lap
 2. Exposure
 3. Square
 4. Coverage
- 3-22. Which of the following expressions is correct concerning the pitch of a roof with a 6-inch-per-foot rise and a 32-foot span?
1. $1/8$
 2. $1/4$
 3. $1/2$
 4. $3/16$
- 3-23. Using roofing felt over sheathing has what primary purpose(s)?
1. To provide a secondary barrier against wind-driven rain only
 2. To keep the sheathing dry until shingles are applied only
 3. To protect shingles against the effects of resinous materials released from the sheathing only
 4. Each of the above

- 3-24. How many rolls of 30-pound felt are required to cover 48,400 square feet?
1. 121
 2. 242
 3. 363
 4. 484
- 3-25. Which of the following materials should be used as an underpayment?
1. Coated felt
 2. Laminated waterproof paper
 3. Asphalt-saturated felt
 4. Polyethylene sheets
- 3-26. Along cave lines where ice dams might occur, what type of roofing material is recommended?
1. 15-lb felt
 2. 30-lb felt
 3. 55-lb mineral surface
 4. 55-lb smooth surface
- 3-27. Forty-two and one-third squares of strip shingles are contained in how many bundles?
1. 127
 2. 381
 3. 609
 4. 1,143
- 3-28. When applying asphalt shingles, how far past the drip edge should you extend the first course to prevent water from backing up under the shingles?
1. 1 in.
 2. 5 in.
 3. 5/8 in.
 4. 1/4 in.
- 3-29. Flashing has what primary purpose(s)?
1. Reflect heat only
 2. Protect against water seepage only
 3. Both 1 and 2 above
 4. Act as a vapor barrier
- 3-30. The concealed nailing method of installing roll roofing is used when maximum service life is required.
1. True
 2. False
- 3-31. A 24-inch-long wood shingle on a roof with a 1/4 pitch should have what maximum exposure?
1. 5 in.
 2. 5 1/4 in.
 3. 5 3/4 in.
 4. 7 1/2 in.
- 3-32. What is/are the primary difference(s) in the installation of wood shakes and wood shingles?
1. Shorter nails are used with wood shingles only
 2. Shingles have less exposure only
 3. An underpayment between each course of shakes only
 4. All of the above
- 3-33. What is the most common type of ridge used on asphalt shingle roofs?
1. Boston
 2. Sheet metal
 3. Tile
 4. Prefabricated
- 3-34. Roofing asphalts are graded on what characteristic?
1. Color
 2. Weight per pound
 3. Temperature at which they begin to flow
 4. Temperature at which they begin to soften
- 3-35. In built-up roofing, which of the following types of felts should be used?
1. Organic only
 2. Glass fiber only
 3. Glass fiber and asphalt only
 4. Any of the above

- 3-36. What is the main purpose of using felt paper on a built-up roof?
1. To hold the bitumens together
 2. To insulate
 3. To soak up excess asphalt
 4. To act as a vapor barrier
- 3-37. Asphalt should be in what temperature range when applied?
1. 275°F to 375°F
 2. 375°F to 425°F
 3. 450°F to 500°F
 4. 500°F to 550°F
- 3-38. The aggregate on a built-up roof serves which of the following functions?
1. Protect the bitumen from sunlight only
 2. Increase wind and fire resistance only
 3. Permit use of a thick surface coating of bitumen only
 4. Each of the above
- 3-39. The first two layers of a five-ply roof are referred to as what type of nailer?
1. Dry
 2. Base
 3. Bottom
 4. Back
- 3-40. A kettle operator should perform what task first?
1. Fill the fuel tank
 2. Fill the kettle with pieces of asphalt
 3. Inspect the kettle, making sure it is dry inside
 4. Light-off the kettle
- 3-41. In a kettle, how should you maintain hot binder at an even temperature?
1. Adjust the burner
 2. Add material at the same rate as the melted material is drawn off
 3. Adjust the fuel pressure
 4. Remove material faster than you add it
- 3-42. If a kettle catches fire, which of the following is an action you should take first?
1. Remove the burner
 2. Shut off the fuel
 3. Spray water on the kettle
 4. Close the lid
- 3-43. The distance maintained between the mopper and the felt layer should not exceed
1. 9 ft
 2. 7 ft
 3. 3 ft
 4. 5 ft
- 3-44. Which of the following properties is/are essential for wood siding?
1. Weathers easily
 2. Paints easily only
 3. Works easily only
 4. Paints and works easily
- 3-45. Which of the following horizontal sidings can be obtained with either shiplap or tongue-and-groove edges?
1. Drop
 2. Bevel
 3. Dolly Varden
- 3-46. In the installation of vertical board siding, board widths range from 2 to 4 inches.
1. True
 2. False
- 3-47. When installing 4- by 8-foot vertical plywood siding, which of the following materials should you apply to the joints to ensure maximum watertightness?
1. Battens only
 2. Caulking only
 3. Water-repellent preservative and caulking only
 4. Any of the above

- 3-48. To present a uniform appearance, siding should line up with which of the following parts?
1. Drip caps of the doors and windows only
 2. Bottoms of doors and windows only
 3. Drip caps and bottoms of doors and windows
 4. Sides of doors and windows
- 3-49. When wood siding has a natural finish, what type of nail should you use?
1. Aluminum only
 2. Stainless steel only
 3. Aluminum or stainless steel
 4. Galvanized
- 3-50. What distance usually determines the average exposure of horizontal siding?
1. Underside of the windowsill to the top of the window drip cap
 2. Bottom of the windowsill to the foundation wall
 3. Bottom of the door to the drip cap of the door
 4. Bottom of the door to the bottom of the windowsill
- 3-51. What should be the exposure of 8-inch siding installed on a building where the overall height of the windows is 68 inches?
1. 5 7/8 in.
 2. 6 in.
 3. 6 3/16 in.
 4. 6 7/8 in.
- 3-52. The first installed course of bevel siding is usually blocked out with which of the following items?
1. Fridgeing
 2. Flashing
 3. A starter strip
 4. A batten
- 3-53. How should siding that returns against a roof surface, such as a dormer, be joined?
1. Mitered corners
 2. Metal corners
 3. Flashing
 4. Corner boards
- 3-54. When applying wood shingles where the "siding effect" is not a consideration, what spacing should you use to allow for expansion during rainy weather?
1. 1/16 to 1/8 in.
 2. 1/8 to 1/4 in.
 3. 1/4 to 1/2 in.
- 3-55. Flashing should be used in a structure where rain or melted snow penetration is possible.
1. True
 2. False
- 3-56. A 24-foot gutter run should have what pitch?
1. 1 7/8 in.
 2. 1 3/4 in.
 3. 1 1/2 in.
 4. 1 5/16 in.
- 3-57. Full height vertical members of a panel door are known by what term?
1. Muntins
 2. Rails
 3. Stiles
 4. Runners
- 3-58. An exterior door made of thin plywood faces over a wood framework with a particle board core is what type?
1. Panel
 2. Flush
 3. Combination
 4. Clad

- 3-59. A main entrance door is normally what size?
- 1 1/2 in. thick, 2 ft 8 in. wide, 6 ft 8 in. high
 - 1 3/4 in. thick, 3 ft 0 in. wide, 6 ft 8 in. high
 - 1 3/4 in. thick, 2 ft 8 in. wide, 6 ft 8 in. high
 - 1 3/4 in. thick, 3 ft 0 in. wide, 7 ft 0 in. high
- 3-60. Securing a doorframe to the framing members requires what nail (a) size and (b) type?
- (a) 16d (b) casing
 - (a) 12d (b) common
 - (a) 10d (b) finish
 - (a) 8d (b) duplex
- 3-61. Where on each side of a jamb should shims be located?
- Bottom only
 - Bottom and top only
 - Center only
 - Bottom, top, and center
- 3-62. Heat loss through metal window frames is less than through wood window frames.
- True
 - False
- 3-63. The small wood members that separate the lights in a sash are known by what term?
- Meeting rails
 - Parting beads
 - Muntins
 - Weather strips
- 3-64. Which of the following windows has a wood sash with a single large light?
- Casement
 - Double hung
 - Hopper
 - Stationary
- 3-65. What advantage does a casement window have over a double-hung window?
- Provides more light
 - Provides better insulation
 - Provides better ventilation
 - Is easier to install
- 3-66. What feature best distinguishes sheet glass from plate glass?
- Plate glass is polished flat on both sides
 - Color
 - Thickness
 - Only plate glass is manufactured in a continuous ribbon and then cut in large sheets
- 3-67. Because of its high rate of expansion, what type of glass requires the most careful cutting, handling, and glazing?
- Laminated
 - Wired
 - Tempered
 - Heat absorbing
- 3-68. Which of the following types of glass should be used where the hazard of flying glass must be avoided?
- Wire
 - Laminated
 - Insulating
 - Safety
- 3-69. When cutting glass, what allowance should you deduct from the measurements to allow for expansion?
- 1/16 in.
 - 1/8 in.
 - 3/16 in.
 - 1/4 in.

- 3-70. What is the required minimum equipment needed to cut glass efficiently?
1. A glass cutter and straightedge only
 2. A glass cutter and tape measure only
 3. A glass cutter, straightedge, flat solid table, and tape measure
 4. A glass cutter, straightedge, and a honing stone

- 3-71. When scoring glass, you should use what minimum number of strokes?
1. One
 2. Two
 3. Three
 4. Four

- 3-72. Which of the following types of sash should be primed before glazing?
1. Old and new metal sash only
 2. Old and new wood sash only
 3. Both 1 and 2 above

- 3-73. What is the primary purpose of putty used in glazing?
1. To make a weathertight joint
 2. To hold the glass in the sash
 3. To improve the appearance
 4. To reduce glass expansion
- 3-74. When you are mounting wire glass in a small wooden window frame, what should be the first step?
1. Insert the glass into the window frame with the wire twist in the vertical position
 2. Lay a continuous 1/6-in.-thick bed of putty in the putty run
 3. Insert the glass into the window frame with the concave side facing out
 4. Lay a continuous bead of putty against the perimeter of the glass
- 3-75. To clean glass after glazing or painting, what material should you use?
1. Ammonia
 2. Mineral spirits
 3. Caustic soap
 4. Acid solution